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The molar in question is imperfect; the crown and upper

portion, so far as the enamel extends, is well preserved, but the base has lost the fangs, and has the appearance of having been worn and polished after the fangs had been broken short off. The two



Posterior molar (left side) of Leopard.

a. View of tooth from the inside.

b. View of the same from the outside.

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Newbourn is a village on the west side of the estuary of the Deben, and about six miles S.W. from Woodbridge. the large pit of red crag at the northern extremity of the village (Mr. Wolton's pit) the crag presents its ordinary character of a purely marine deposit, containing the usual shells, in great part comminuted. But the horizontal strata are traversed to the depth of about thirty feet by numerous fissures, which are from a few inches to a foot or more in width, and are filled principally with the detritus of red crag in which numerous fragments of shells are still preserved. Some of these rents terminate downwards, coming to a point, with no signs of fracture below. As at present our information simply extends to the fact that the Leopard's tooth was picked up together with those of fishes in this pit, it might be suggested that the mammalian relic was possibly derived from the contents of one of the fissures, the filling of which was an event certainly posterior and perhaps long subsequent to the æra of the deposition of the crag.

It is well known that teeth of the cave hyæna were found near Maidstone, in Kent, in a rent traversing the limestone called Kentish Rag, and it was not till many years afterwards that any other teeth or bones of quadrupeds were discovered in the superficial deposits of the same district.

Mr. Searles Wood, to whom I communicated the result of Mr. Owen's examination of the Newbourn fossil, lost no time in carefully examining a large collection of fossil teeth from Newbourn, belonging to the Rev. Edward Moore, of Bealings, near Woodbridge. They belong chiefly to the fishes usually found in the Red Crag, but Mr. Wood selected from among them some which he supposed to be mammalian. Mr. Owen, after an attentive comparison of these, has been able to refer them to a Bear, Hog, and a large Ruminant of the size of the red deer.

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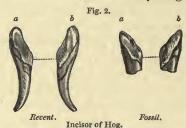
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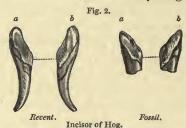
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belongs to the lower jaw, right side, and very closely resembles the corresponding tooth of a young wild boar. (See fig. 2.)

"3. Ruminant.—Fragments of a fractured molar of a Ruminant as large as the red-deer."

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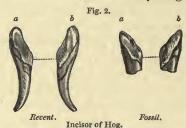
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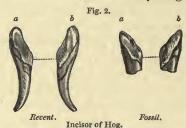
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XX.—On the occurrence of Fossil Quadrumanous, Marsupial, and other Mammalia in the London Clay, near Woodbridge, in Suffolk. By Charles Lyell, Esq., F.R.S., V.P.G.S., &c.

In the summer of 1838 I was informed by Mr. Wm. Colchester of Ipswich, that he had obtained in the spring of the preceding year, from Kyson (or Kingston), near Woodbridge, in Suffolk, a tooth which he supposed to belong to a mammiferous quadruped, and that it was derived from a bed of sand which he conceived to belong to the London clay formation. In the following year, after having seen the tooth in question and recognized it as decidedly mammiferous, I requested him to take me to the spot, which is situated near the village of Martlesham, on the borders of the estuary of the Deben, about 1½ mile from Woodbridge, and at the distance of about 6 miles from the village of Newbourn mentioned in the preceding notice. I found the deposit at Kyson to consist of brown clay laid open to the depth of 12 feet, and below this sand in layers, yellow and white, which has been pierced to the depth of 12 feet without reaching the bottom. The clay and sand here are dug for making bricks; in the unpermost bed of this sand, precisely at the point where it is in contact with the overlying clay, I found numerous teeth of fishes of the Shark family, similar to others which Mr. Colchester had previously met with associated with the mammalian tooth.

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